

FIG. 1

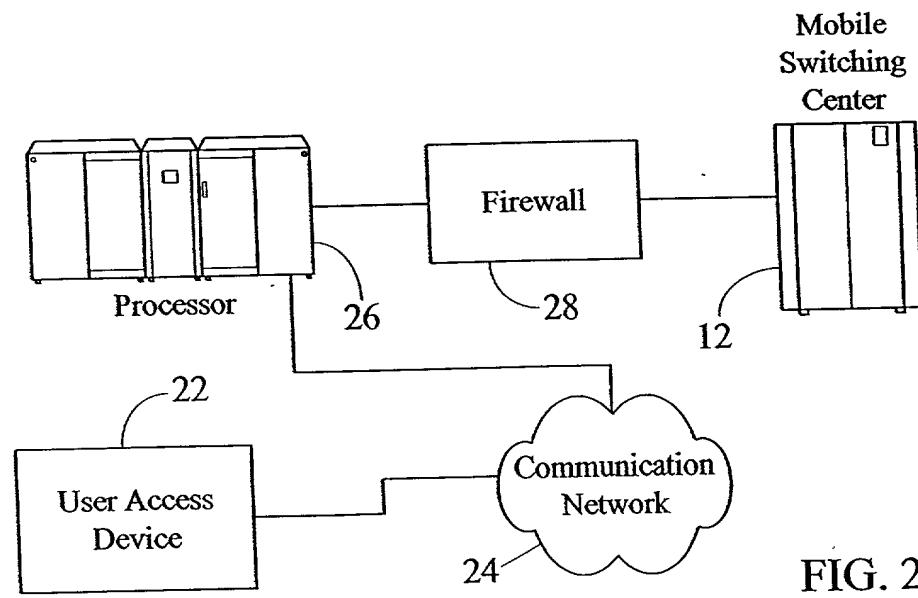


FIG. 2

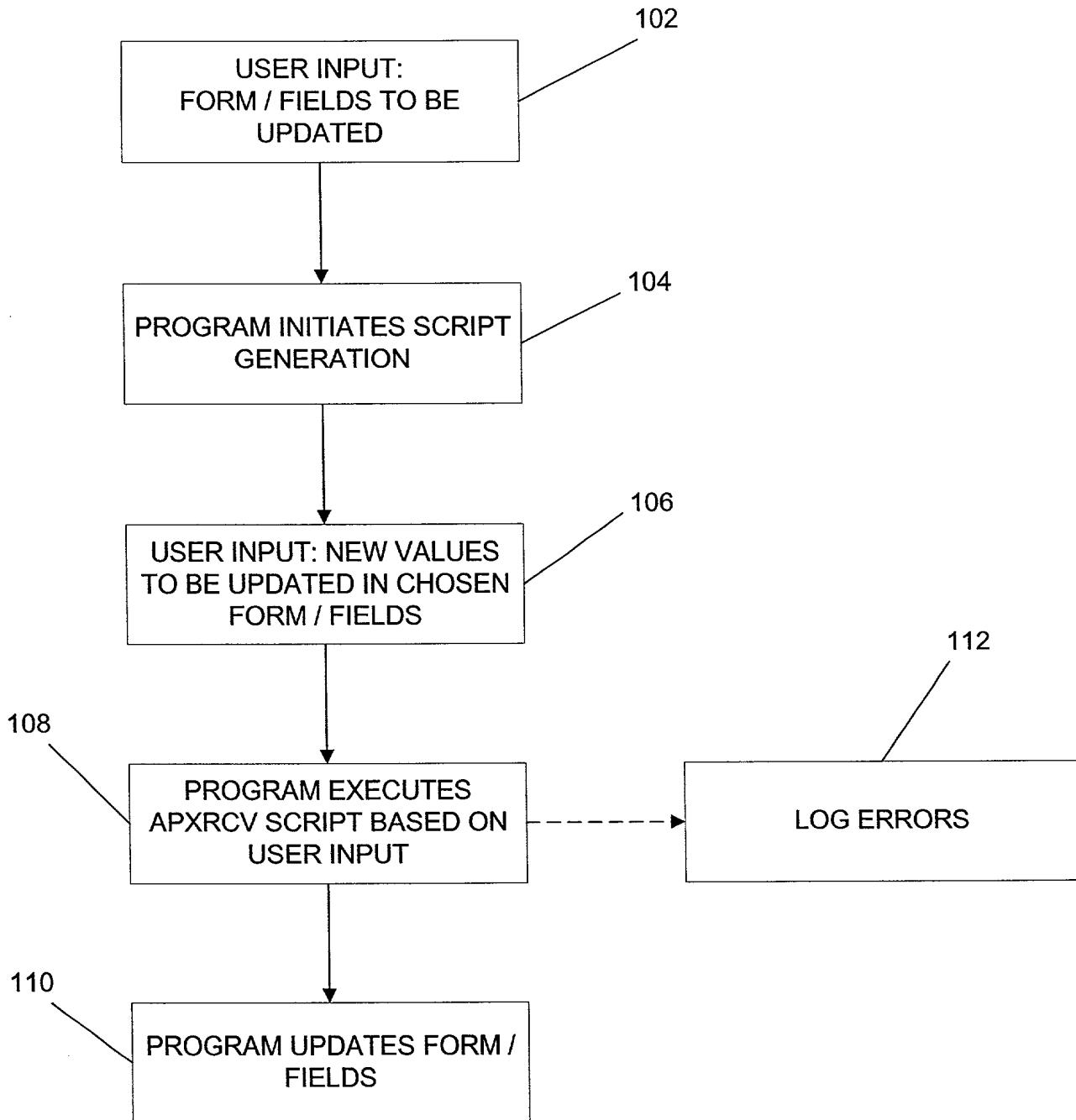


FIG. 3

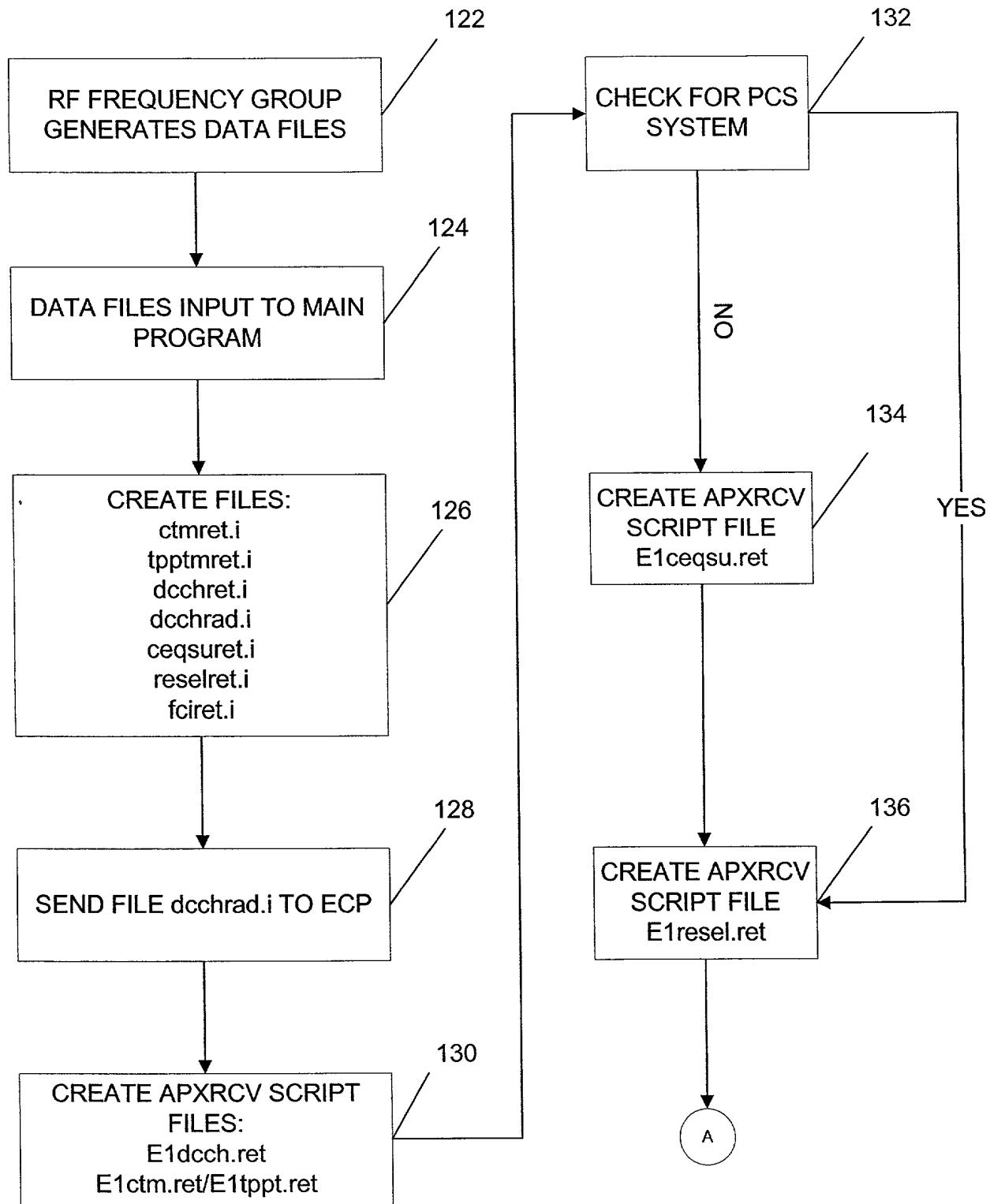


FIG. 4A

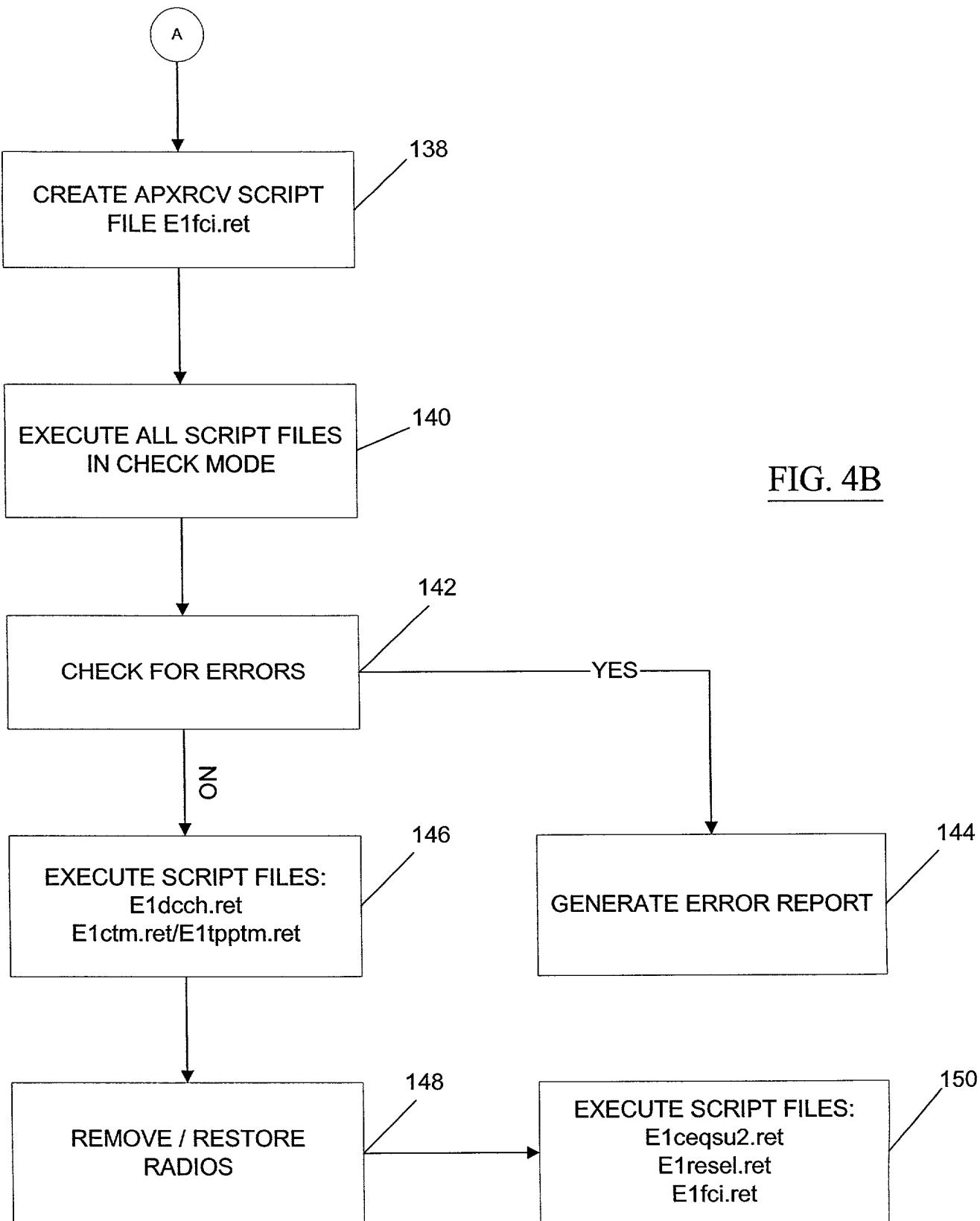


FIG. 4B

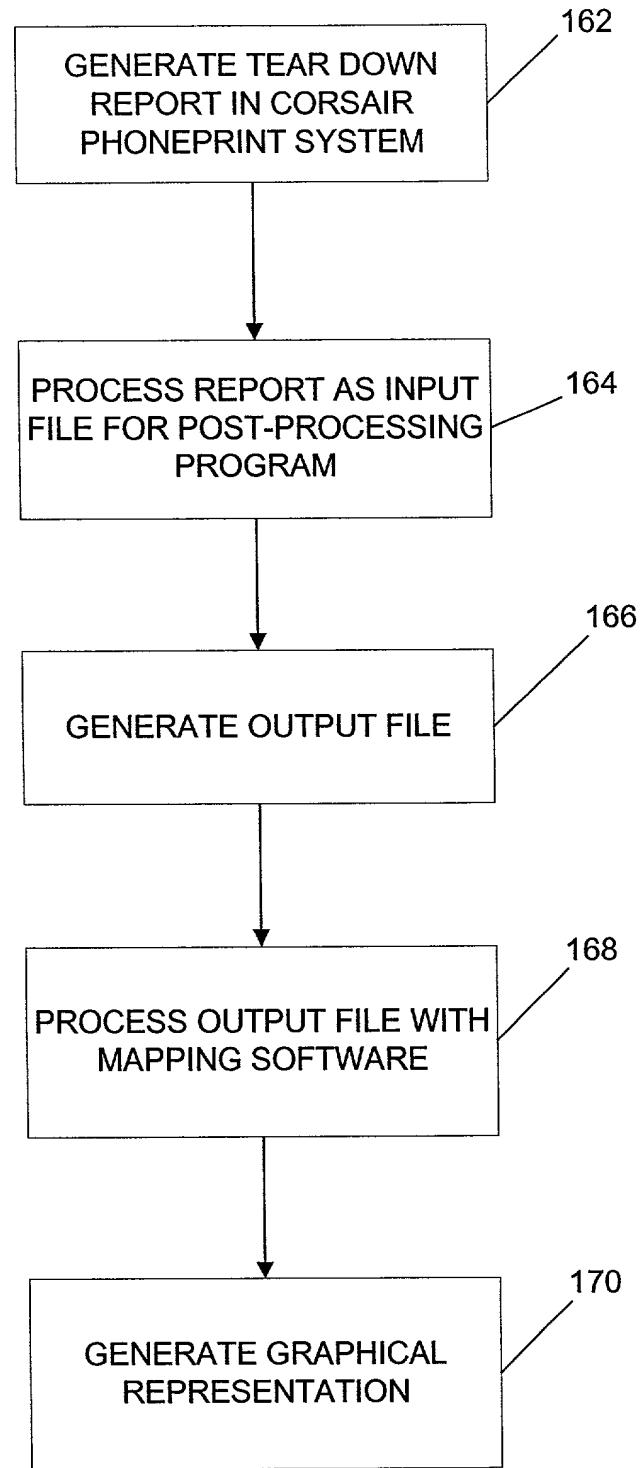


FIG. 5

>pg pp9912.txt

Date	Time(2)	Site_ID	MIN(1)	Dialed_Digits	Tear-Down	Reason
12/25/99	19:26:09	20		2012075854	12014981322	MFG
12/23/99	14:56:20	219		2012075854	5617767114	MFG
12/26/99	21:40:32	167		2012130072	19547814445	MFG
12/23/99	19:06:49	82		2012134416	9544289147	MFG
12/23/99	19:06:23	82		2012134416	9544289147	MFG
12/25/99	17:23:55	82		2012134416	9544285083	MFG
12/25/99	15:06:20	82		2012134416	2015680907	MFG
12/25/99	13:04:16	82		2012134416	2015680907	MFG
12/25/99	13:04:05	82		2012134416	2015680907	MFG
12/25/99	13:03:53	82		2012134416	2015680907	MFG
12/25/99	13:03:31	82		2012134416	2015680907	MFG
12/25/99	13:01:49	82		2012134416	2015680907	MFG
12/25/99	12:53:38	82		2012134416	2015680907	MFG
12/25/99	12:52:32	82		2012134416	2015680907	MFG
12/25/99	12:52:03	82		2012134416	2015680907	MFG
12/25/99	12:50:48	82		2012134416	2015680907	MFG
12/25/99	12:48:15	82		2012134416	2015680907	MFG
12/25/99	12:47:16	82		2012134416	5680907 MFG	
12/24/99	11:58:50	82		2012134416	8003328463	MFG
12/24/99	11:58:08	82		2012134416	8003328463	MFG
12/24/99	10:03:16	82		2012134416	9544289147	MFG
12/22/99	14:58:09	80		2012300764	19546467166	MFG
12/29/99	10:54:28	177		2012400657	19086881800	MFG
12/29/99	10:51:49	177		2012400657	9412503698	MFG
12/29/99	10:25:04	145		2012400657	12012400657	MFG
12/29/99	10:24:42	145		2012400657	12012400657	MFG
12/27/99	21:26:01	49		2012476225	15616551115	MFG
12/24/99	19:22:48	219		2012476225	15615551212	MFG
12/24/99	19:22:26	219		2012476225	15615551212	MFG
12/24/99	19:22:06	219		2012476225	15615551212	MFG
12/24/99	19:13:38	219		2012476225	5617950022	MFG
12/27/99	12:01:06	20		2012476225	15614996976	MFG
12/23/99	16:23:47	12		2012640686	3105152822	MFG
12/23/99	16:17:19	12		2012640686	3105152822	MFG
12/23/99	16:17:03	12		2012640686	3105152822	MFG

FIG. 6

>pg map1299
ECP,CellNo,Longitude,Latitude,Count
4,1,-80.1675,26.155278,148
3,5,-80.361111,25.699444,209
1,6,-80.171667,26.36,675
1,7,-80.114167,26.562778,173
1,8,-80.109722,26.760556,76
3,9,-80.317222,25.679444,311
3,10,-80.266667,25.747222,115
4,12,-80.29,26.183333,268
3,13,-80.422778,25.526111,164
4,15,-80.123056,25.854167,510
4,16,-80.198611,26.248889,401
1,18,-80.088889,26.45,380
1,20,-80.058611,26.651944,216
4,22,-80.210833,25.848611,138
4,23,-80.128889,26.085833,844
4,25,-80.288889,25.845556,55
1,26,-80.201111,26.630833,251
4,27,-80.204722,25.93,590
3,28,-80.360833,25.596667,255
3,29,-80.333889,25.649444,584
4,30,-80.415,26.086389,207
4,31,-80.175833,26.121944,128
1,37,-80.681389,26.686667,213
4,40,-80.364444,25.828333,156
4,42,-80.286944,25.920556,147
4,43,-80.168056,26.024722,333
3,46,-80.129167,25.793611,2694
3,47,-80.238611,25.811389,121
1,49,-80.051667,26.711944,381
4,50,-80.160556,25.908611,187
4,52,-80.26,26.121667,456
4,53,-80.105556,26.136389,501
3,54,-80.383333,25.653056,81
4,55,-80.249444,26.268333,314
3,56,-80.294722,25.703889,184
3,57,-80.315,25.808333,21
3,58,-80.265278,25.788333,267
4,60,-80.25,25.891667,205
4,61,-80.090833,26.230278,147
4,64,-80.211667,26.0175,595

FIG. 7

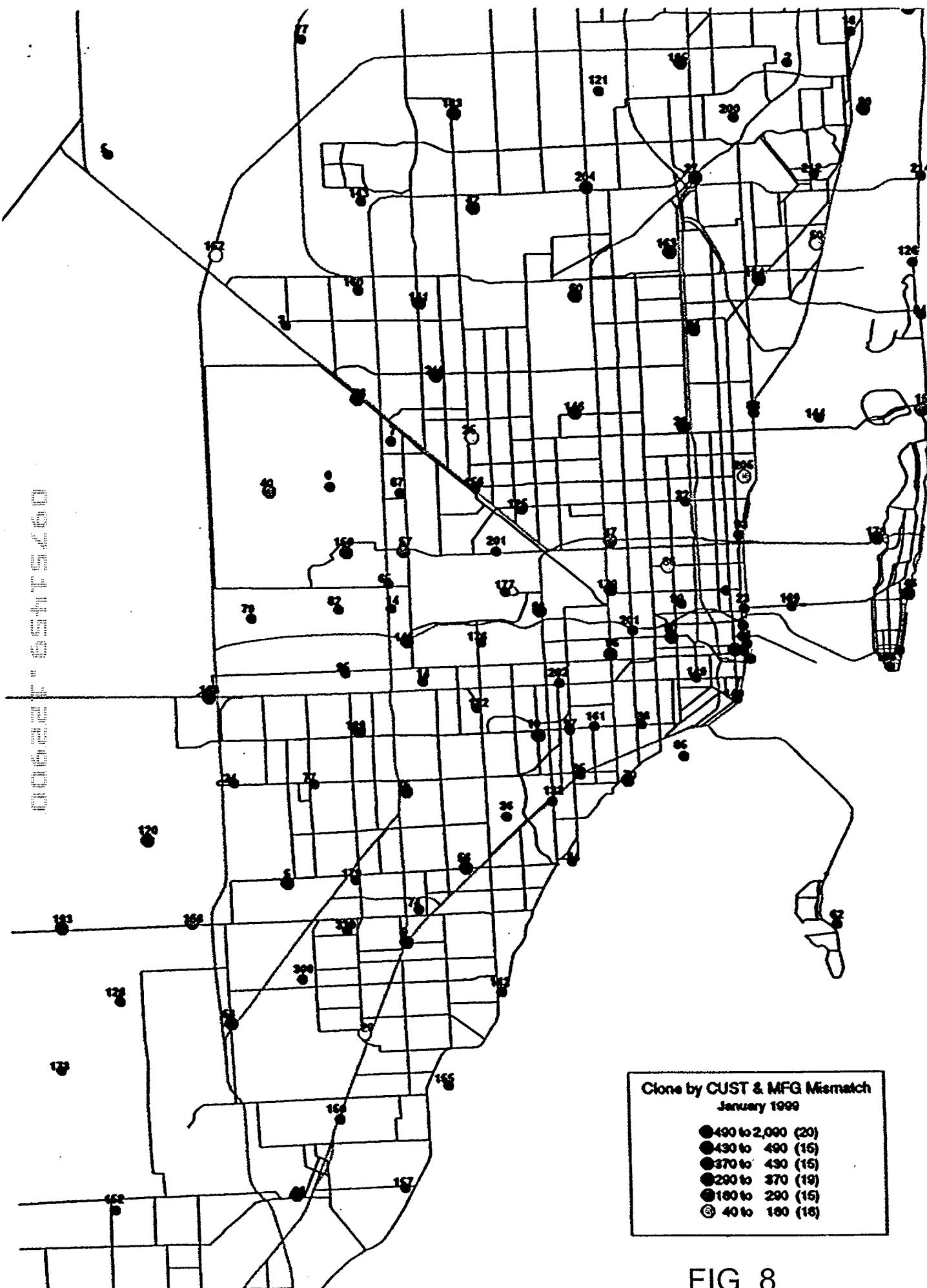


FIG. 8

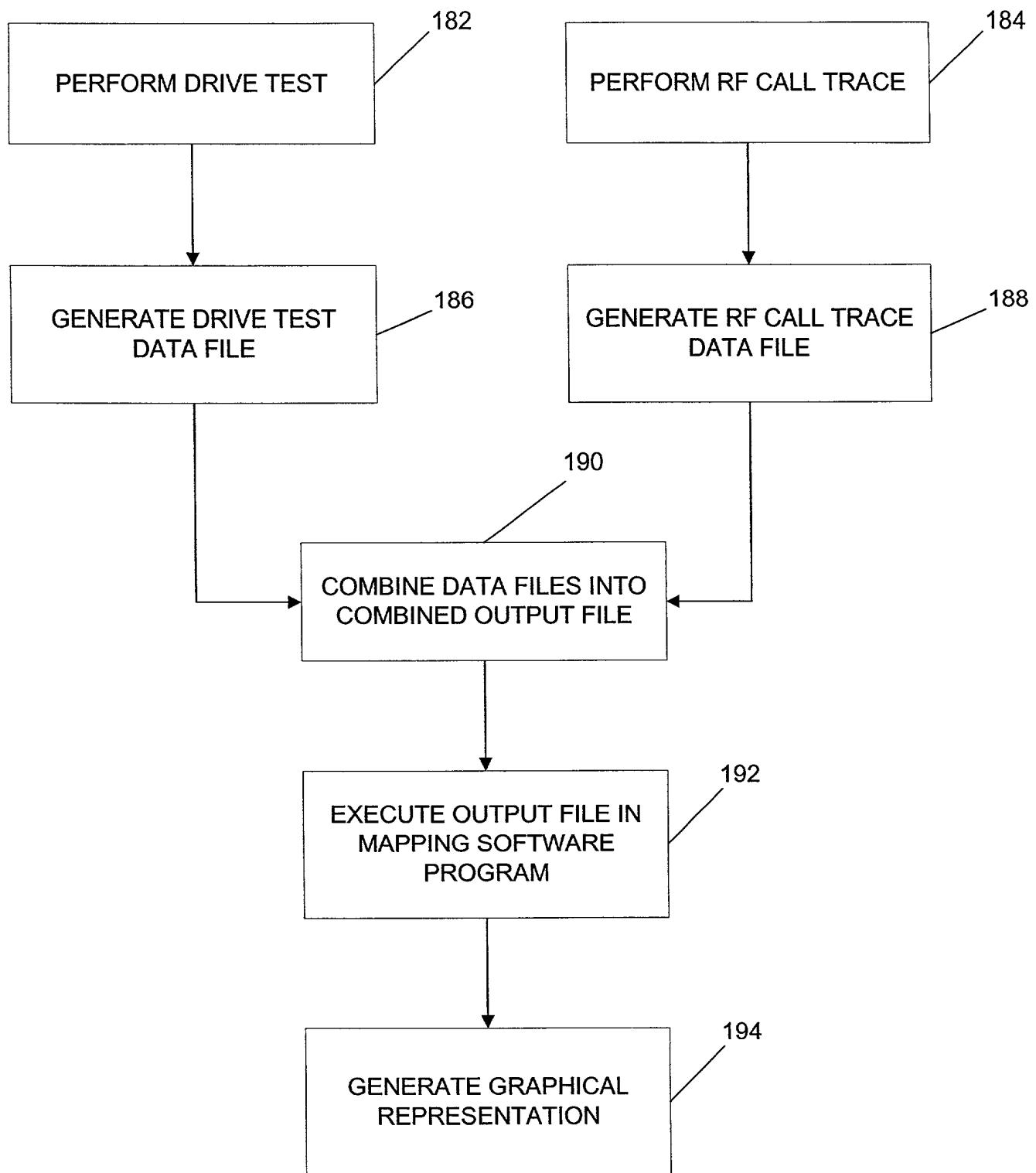


FIG. 9

SAMPLE Ericsson log

MOBILE TELEPHONY CELL TRAFFIC RECORDING
DIGITAL SIGNAL STRENGTH MEASUREMENTS

MSNB	CELL	DEV	SSFVC	SSRVC
9412580201	T017C	MDVC-1060	23	20
SSSTDRC	BERFVC	BERRVC	RBERRVC	FERRVC
6	3	2	2	0
BQRVC	TDRVC	FREQERR	TIMEALIGN	MSPOW
15	0	1	0	2
NCELL	NSSFFMC	MEASCHAN	VIND	
T017A	5	1260	Y	
T017B	23	1272	Y	
T006B	17	1300	Y	
T016B	13	1305	Y	
T004A	29	1251	Y	
T005B	33	1302	Y	
T005A	23	1290	Y	
T018A	21	1294	Y	
T154B	21	1303	Y	
TIME	PRINTIND	FCODE		
11:08:27	0			
END				

MOBILE TELEPHONY CELL TRAFFIC RECORDING CANDIDATE LIST FOR
HANDOFF

MSNB	CELL	TIME	FCODE	URGENCY
9412580201	T017C	11:08:27		0
CANDCELL	CELLTYPE	NTYPE	RATING	
T005B	0	STD	0	

END

FIG. 10

XTEL LOG FILE

DATE,TIME,LONGITUDE,LATITUDE,ALT,SPEED,HEADING,GPS_MODE,PHONE_TASK,TASK
_DESC,CHAN,RSSI,MODTYPE,SLOT,CHANTYPE,SAT,DVCC,POWER,BER,BER_CODE,SBI,T
A,CELL1,DISTANCE1,CELL2,DISTANCE2,CELL3,DISTANCE3,LOWER_CTOA,UPPER_CTOA
,COCHA_RSSI,MARKER,CHAN_GRP,EVENT,EVINFO,BAND,LISTTYPE,LISTCT,CHAN1,RSS
I1,CHAN2,RSSI2,CHAN3,RSSI3,CHAN4,RSSI4,CHAN5,RSSI5,CHAN6,RSSI6,CHAN7,RS
SI7,CHAN8,RSSI8,CHAN9,RSSI9,CHAN10,RSSI10,CHAN11,RSSI11,CHAN12,RSSI12,C
HAN13,RSSI13,CHAN14,RSSI14,CHAN15,RSSI15,CHAN16,RSSI16,CHAN17,RSSI17,CH
AN18,RSSI18,CHAN19,RSSI19,CHAN20,RSSI20,CHAN21,RSSI21,CHAN22,RSSI22,CHA
N23,RSSI23,CHAN24,RSSI24,CHAN25,RSSI25,REVISION
7/30/99,11:08:27,-
82.3321883,27.9813839,9,40.3,86.9,G8,5,Conversation,1218,-
93,D,3,V,3,5,2,0.87,3,0,0,.,.,.,14,15,-100,0.8,.,1,Neig,9,1284,-
89,1302,-93,1300,-103,1255,-107,1317,-109,1303,-109,1314,-111,1305,-
111,1315,-
113,0,4
7/30/99,10:52:47,-
82.3321883,27.9813839,9,40.3,86.9,G8,5,Conversation,1218,-
93,D,3,V,3,5,2,0.84,3,0,0,.,.,.,14,15,-100,0.8,.,1,Neig,9,1284,-
89,1302,-93,1300,-103,1303,-107,1255,-109,1314,-111,1317,-111,1305,-
111,1315,-
113,0,4
7/30/99,10:52:48,-
82.3319553,27.9813947,10,43.1,87.0,G8,5,Conversation,1218,-
93,D,3,V,3,5,2,0.84,3,0,0,.,.,.,-10,38,-137,0.8,.,1,Neig,9,1284,-
89,1302,-93,1300,-103,1303,-107,1255,-109,1314,-111,1317,-111,1305,-
111,1315,-
113,0,4
7/30/99,10:52:48,-
82.3319553,27.9813947,10,43.1,87.0,G8,5,Conversation,1218,-
95,D,3,V,3,5,2,0.99,3,0,0,.,.,.,-10,38,-137,0.8,.,1,Neig,9,1284,-
83,1302,-93,1300,-101,1303,-105,1255,-109,1305,-111,1314,-113,1315,-
113,1317,-
113,0,4
7/30/99,10:52:49,-
82.3317164,27.9814044,10,44.7,87.2,G8,5,Conversation,1218,-
95,D,3,V,3,5,2,0.99,3,0,0,.,.,.,-10,38,-137,0.8,.,1,Neig,9,1284,-
83,1302,-93,1300,-101,1303,-105,1255,-109,1305,-111,1314,-113,1315,-
113,1317,-
113,0,4

FIG. 11A

MT

IR, RBER, FER, BQ, TD, FREQ, TIME, MS, PRINT
DEV, FVC, RVC, TDRVC, FVC, RVC, RVC, RVC, RVC, RVC, ERR, ALIG

28.0069725, 9412580201, T017C, MDVC-
15, 0, 1, 0, 2, 0
28.0069725, 9412580201, T017C, MDVC-
15, 0, 1, 0, 2, 0
28.0069856, 9412580201, T017C, MDVC-
15, 0, 2, 0, 2, 1
28.0069856, 9412580201, T017C, MDVC-
15, 0, 2, 0, 2, 1
28.0070392, 9412580201, T005B, MDVC-
2, 0, 4, 0, 2, 1
28.0072014, 9412580201, T005B, MDVC-
7, 0, 4, 0, 2, 1
28.0072014, 9412580201, T005B, MDVC-
7, 0, 4, 0, 2, 1
28.0073900, 9412580201, T005B, MDVC-
8, 0, 3, 0, 2, 1
28.0073900, 9412580201, T005B, MDVC-
8, 0, 3, 0, 2, 1
28.0075761, 9412580201, T005B, MDVC-
7, 0, 5, 0, 2, 1
28.0075761, 9412580201, T005B, MDVC-
7, 0, 5, 0, 2, 1
592, 9412580201, T005B

FIG. 11B

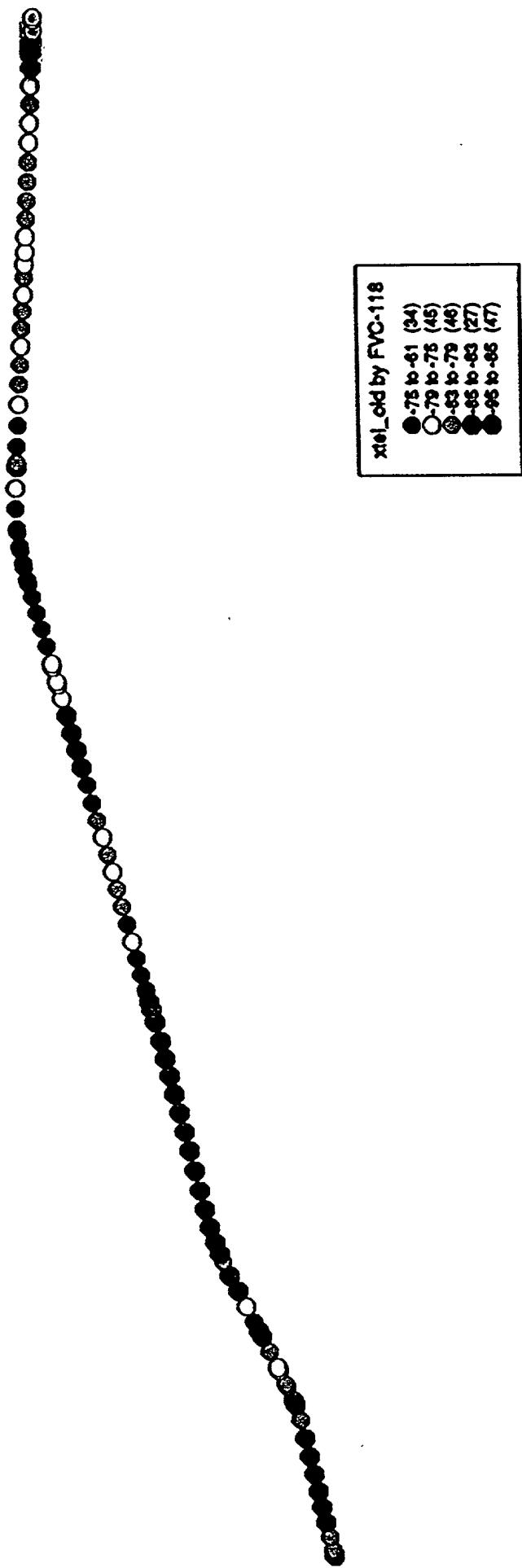


FIG. 12

Comarco File

13:20:00.8,26.677,-81.567
13:20:01.2,25.230,-81.456
.....
.....
.....
13.21.00.3,28.655,-81.2128

FIG. 13A

Time,Long,Lat,CellNo,SS,
12:41:29,28.6559300,-81.205792000,1353,-124
12:41:29,28.6559300,-81.205792000,201,-106
12:41:29,28.6559300,-81.205792000,32,-106
12:41:29,28.6559300,-81.205792000,321,-76
12:41:29,28.6559300,-81.205792000,323,-66
12:41:29,28.6559300,-81.205792000,831,-100
12:41:30,28.6559260,-81.205580000,323,-66
12:41:31,28.6559170,-81.205380000,321,-75
12:41:31,28.6559170,-81.205380000,321,-75
12:41:31,28.6559170,-81.205380000,323,-64
12:41:32,28.6559080,-81.205198000,323,-63
12:41:33,28.6558950,-81.204922000,321,-73
12:41:33,28.6558950,-81.204922000,323,-62
12:41:34,28.6558900,-81.204769000,321,-73
12:41:34,28.6558900,-81.204769000,321,-73
12:41:34,28.6558900,-81.204769000,322,-98
12:41:34,28.6558900,-81.204769000,323,-61
12:41:35,28.6558900,-81.204577000,1353,-124
12:41:35,28.6558900,-81.204577000,201,-105
12:41:35,28.6558900,-81.204577000,202,-106
12:41:35,28.6558900,-81.204577000,32,-105
12:41:35,28.6558900,-81.204577000,323,-63
12:41:35,28.6558900,-81.204577000,831,-99
12:41:37,28.6558970,-81.204219000,321,-73
12:41:37,28.6558970,-81.204219000,323,-67
12:41:38,28.6559000,-81.204044000,321,-74
12:41:38,28.6559000,-81.204044000,323,-67
12:41:38,28.6559000,-81.204044000,321,-74
12:41:38,28.6559000,-81.204044000,323,-67
12:41:40,28.6559020,-81.203683000,1353,-122
12:41:40,28.6559020,-81.203683000,202,-104
12:41:40,28.6559020,-81.203683000,32,-105
12:41:40,28.6559020,-81.203683000,321,-73
12:41:40,28.6559020,-81.203683000,322,-96
12:41:40,28.6559020,-81.203683000,323,-67
12:41:41,28.6559070,-81.203457000,321,-72
12:41:41,28.6559070,-81.203457000,323,-66
12:41:42,28.6559100,-81.203125000,321,-71
12:41:42,28.6559100,-81.203125000,323,-66

FIG. 13B

v----- Record # 1: -----v
05/10/99 13:22:05 ALM INF 4103 7 32 G TC 457
Call Monitor: Call Record has been Written in RAM disk
Ph#: (407)9223002 Call clear by MS - mobile clear
v----- Record # 2: -----v
05/10/99 13:22:04 ALM INF 4113 7 32 G TC 457
Call Monitor: Call RSSI value
(407)9223002 cell 323 rrssi -77 attn 4 snr 40
v----- Record # 3: -----v
05/10/99 13:22:04 ALM INF 4117 7 32 G SRC
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
(407)9223002 Cell_id/RSSI: 323 / -73
v----- Record # 264: -----v
05/10/99 13:21:00 ALM INF 4117 7 20 A SRC
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
(407)9223002 Cell_id/RSSI: 201 / -98
v----- Record # 265: -----v
05/10/99 13:21:00 ALM INF 4117 7 32 B SRC
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
(407)9223002 Cell_id/RSSI: 322 / -103
v----- Record # 266: -----v
05/10/99 13:21:00 ALM INF 4117 7 83 A SRC
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
(407)9223002 Cell_id/RSSI: 831 / -96
v----- Record # 267: -----v
05/10/99 13:21:00 ALM INF 4117 7 32 A SRC
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
(407)9223002 Cell_id/RSSI: 321 / -78
v----- Record # 268: -----v
05/10/99 13:21:00 ALM INF 4117 7 135 G SRC
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
(407)9223002 Cell_id/RSSI: 1353 / -113
v----- Record # 269: -----v
05/10/99 13:21:00 ALM INF 4117 7 20 B SRC
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
(407)9223002 Cell_id/RSSI: 202 / -100
v----- Record # 270: -----v
05/10/99 13:21:00 ALM INF 4113 7 32 G TC 457
Call Monitor: Call RSSI value
(407)9223002 cell 323 rrssi -72 attn 4 snr 40
v----- Record # 271: -----v
05/10/99 13:21:00 ALM INF 4117 7 32 G SRC
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
(407)9223002 Cell_id/RSSI: 323 / -71
v----- Record # 272: -----v
05/10/99 13:21:00 ALM INF 4117 7 3 B SRC
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
(407)9223002 Cell_id/RSSI: 32 / -115

FIG. 14

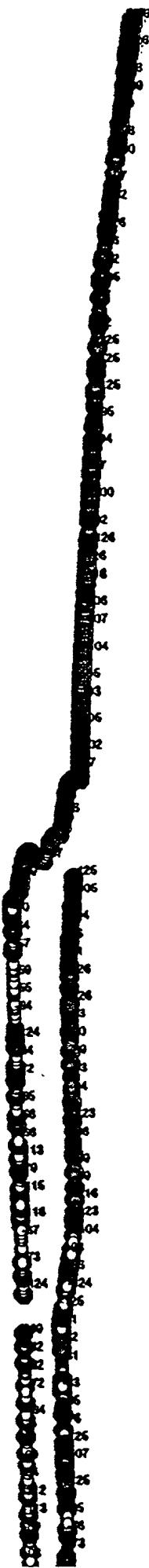


FIG. 15

tra0528_out by SS		
○	-65 to -66	(800)
●	-92 to -85	(534)
●	-98 to -92	(466)
●	-108 to -98	(540)
●	-115 to -108	(482)
●	-127 to -115	(566)